

SLO2 AND SLO4, NOVEL POTASSIUM CHANNEL PROTEINS FROM HUMAN BRAIN

ABSTRACT OF THE DISCLOSURE

5 The invention provides isolated nucleic acid and amino acid sequences of Slo2
and Slo4, members of the Slo family of potassium channel proteins, also known as “maxi” or
BK potassium channel proteins. Also provided herein are antibodies to Slo2 and Slo 4,
methods of detecting Slo2 and Slo 4, methods of screening for potassium channel activators
and inhibitors using biologically active Slo2 and Slo 4, and kits for screening for activators
10 and inhibitors of voltage-gated potassium channels comprising Slo2 and Slo 4.

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